**Supplementary material:**

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| **Supplementary Table S2.**  The tested hypotheses in the models to identify predictive factors of landscape variables in the evaluated biological variables. | |
| Hypotheses for coffee leaf miner infestations | |
| General landscape configuration | The landscape variables act simultaneously on the population densities of the coffee leaf miner |
| Isolated effects of landscape configuration | The population densities of coffee leaf miners are affected by forest cover in isolation |
| The population densities of coffee leaf miners are affected by edge density in isolation |
| The population densities of coffee leaf miners are affected by landscape diversity in isolation |
| Hypotheses for natural parasitism | |
| General landscape configuration | The landscape variables act simultaneously on the natural parasitism of the coffee leaf miner  Landscape variables affect the diversity of coffee leaf miner parasitoid species |
| Isolated effects of landscape configuration | The natural parasitism of coffee leaf miner is affected by forest cover in isolation |
| The natural parasitism of coffee leaf miner is affected by edge density in isolation |
| The natural parasitism of coffee leaf miner is affected by landscape diversity in isolation |
| The diversity of coffee leaf miner parasitoid species is affected by forest cover in isolation |
| The diversity of coffee leaf miner parasitoid species is affected by edge density in isolation |
| The diversity of coffee leaf miner parasitoid species is affected by landscape diversity in isolation |